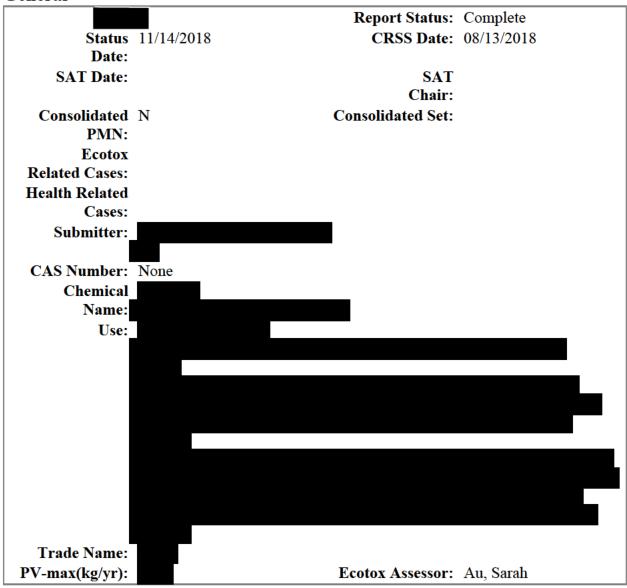
Ecotox Report for Case # P-18-0272

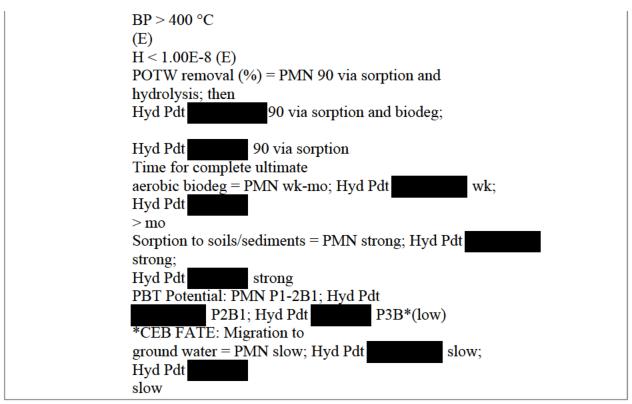
General



Fate Summary Statement

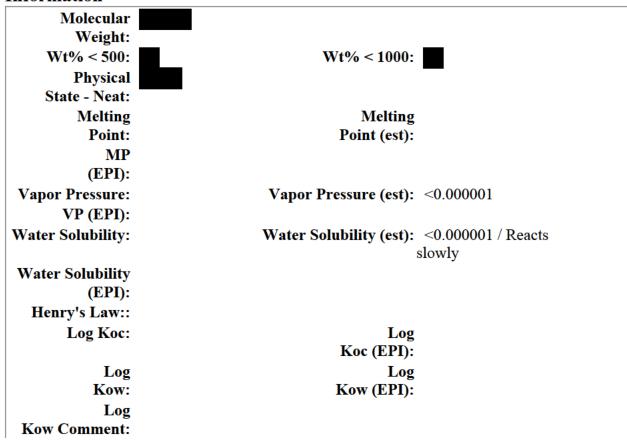
```
Fate P-18-0272
Summary FATE:
Statement: MW = with  < 500 and  < 1000
with MP < 25 °C

(E)
S = Reacts slowly / < 0.001 g/L at 25 °C (E)
Hydrolysis
half-life = wk-mo
VP < 1.0E-6 torr at 25 °C (E)
```



Physical Chemical

Information



SAT

Concern Level

Ecotox 1 Rating (1):

Ecotox No

Rating Comment effects at saturation (NES)

(1):

Ecotox Rating

(2):

Ecotox

Rating Comment

(2):

Ecotox Route of No releases to

Exposure: water

Ecotox Comments

Exposure N **Based Review**

(Eco):

Ecotox

Comments: Exposure Based

Testing:

PBT Ratings

Persistence	Bioaccumulation	Toxicity	Comments
1-2	1		PMN
2	1		Hyd
			Pdt
3	*		Hyd
			Pdt ,
			B*(low)

Eco-Toxicity Comment:

Fate Ratings

Removal 90;90;90 in WWT/POTW PMN;Hyd Pdt ;Hyd Pdt						
(Overall):						
Condition	Rating Values	1	Rating I	Description 3	4	Comment
Fish BCF: Log Fish BCF: WWT/POTW Sorption:	3;3;3	Low	Moderate	Strong	V. Strong	PMN;Hyd Pdt
WWT/POTW Stripping:	4;4;4	Extensive	Moderate	Low	Negligible	;Hyd Pdt PMN;Hyd Pdt ;Hyd
Biodegradation Removal:	4;2;4	Unknown	High	Moderate	Negligible	Pdt PMN;Hyd Pdt ;Hyd
Biodegradation Destruction: Aerobic Biodeg Ult:	2-3;2;4	Unknown <= Days	Complete Weeks	Partial Months	> Months	PMN;Hyd Pdt
Aerobic Biodeg Prim: Anaerobic Biodeg Ult:	2-3;3;4	<= Days <= Days	Weeks Weeks	Months Months	> Months > Months	PMN;Hyd Pdt
Anaerobic Biodeg Prim:		<= Days <= Minutes	Weeks Hours	Months Days	> Months >= Months	;Hyd Pdt

Removal 90;90;90							
in WWT/POTW PMN;Hyd Pdt ;Hyd Pdt							
(Overall): Condition	Rating	Rating Rating Description Comment					
	Values	1	2	3	4		
Hydrolysis (t1/2 at pH 7,25C) A:							
7,25C) A. Hydrolysis (t1/2 at pH 7,25C) B:		<= Minutes	Hours	Days	>= Months		
Sorption to Soils/Sediments:	2;2;2	V. Strong	Strong	Moderate	Low	PMN;Hyd Pdt yd Pdt	
Migration to Ground Water:	2;2;2	Negligible	Slow	Moderate	Rapid	PMN;Hyd Pdt ;Hyd Pdt	
Photolysis A, Direct:		Negligible	Slow	Moderate	Rapid		
Photolysis B, Indirect:		Negligible	Slow	Moderate	Rapid		
Atmospheric Ox A, OH:		Negligible	Slow	Moderate	Rapid		
Atmospheric Ox B, O3:		Negligible	Slow	Moderate	Rapid		
Bio Comments: The							
PMN material may hydrolyze with a half-life of weeks to months to give complexes. The hydrolysis will be inhibited due to the low water solubility, but acidic/basic conditions may increase the rate of hydrolysis.							
Fate Comments:							

Ecotoxicity

Values

Test organism	Test Type	Test Endpoint	Predicted	Experimental Comments
Fish	96-h	LC50	*	No effects at
Daphnid	48-h	LC50	*	saturation (NES)

Test organism	Test Type	Test Endpoint	Predicted	Experimental Comments
Green Algae	96 - h	EC50	*	"
Fish	-	Chronic Value	*	"
Daphnid	-	Chronic Value	*	"
Green Algae	-	Chronic Value	*	"
Comments: che sol 100 slo ing	emical substability of Pool; when we will be written to the control of the contro	-18-0272 (insoluble with an unknown MI); effective conce	ons based on nonionic po P (P); S = ne entrations ba	the negligible water

Ecotox Factors

Factors	Most Sensitive Endpoint	Assessment Factor	СоС	Comment
Acute Aquatic				An acute COC was not
(ppb):				calculated because the acute
				toxicity values show no effects
				at
				saturation.
Chronic				A chronic COC was not
Aquatic(ppb):				calculated because the chronic
				toxicity values show no effects
				at
				saturation.
Factors	Va	lues	Comments	
SARs:				
SAR Class:				
	-			
TSCA NCC			_	
Category?	None			

Recommended

Testing:

Ecotox Factors Environmental

Comments: Hazard: Environmental hazard is relevant to whether a new chemical substance is likely to present unreasonable risk because the significance of the risk is dependent upon both the hazard (or toxicity) of the chemical substance and the extent of exposure to the substance. EPA

estimated environmental hazard of this new chemical substance using predictions based on the negligible water solubility of P-18-0272; MW with < 1000). Acute and chronic toxicity values estimated for fish, aquatic invertebrates and algae are all no effects at saturation. These toxicity values indicate that the new chemical substance is expected to have low environmental hazard. Because hazards are not expected up to the water solubility limit, acute and chronic concentrations of concern are not identified.

Environmental Risk: Risks to the environment were evaluated by comparing estimated surface water concentrations with the acute and chronic concentrations of concern. Risks to the environment from acute and chronic exposure are not expected at any concentration of the new chemical substance soluble in the water (i.e., no effects at saturation).

Comments/Telephone Log

Artifact	Update/Upload Time